

ABSTRACT

There is disclosed a plugged honeycomb structure 1 having: partition walls 2 arranged in such a manner as to form a plurality of cells 3 extending from one end face 42 to the other end face 44 through an axial direction; an outer peripheral wall 7 which surrounds an outer periphery of the partition wall 2; and plugging portions 4a, 4b disposed in such a manner as to plug the cell 3 in either end face 42, 44. In the plugged honeycomb structure 1, at least some of plugging portions 4a arranged in at least the vicinity of the outer peripheral wall protrude from the end face 42 or 44. Alternatively, there are provided a plugged honeycomb structure 1 in which a tip of the protruding portion 4a is substantially flat or has a moderate curved face, and a method of manufacturing the structure. The plugged honeycomb structure 1 does not easily break, is capable of enhancing durability, and is preferably usable in a filter such as a diesel particulate filter (DPF).